

What Is Claimed Is:

1 1. A fixing assembly for connecting and fixing a hard
2 disk drive to an electronic device, comprising:
3 a mounting bracket for mounting a hard disk drive; and
4 a cover flexibly connected to the mounting bracket to
5 engage the electronic device.

1 2. The fixing assembly as claimed in claim 1, wherein the
2 mounting bracket comprises a first engaging portion, and the
3 cover comprises a second engaging portion flexibly connected to
4 the first engaging portion.

1 3. The fixing assembly as claimed in claim 2, wherein the
2 first engaging portion is a hook and the second engaging portion
3 is a groove, and the hook engages the groove to prevent the hard
4 drive from moving along an X axis.

1 4. The fixing assembly as claimed in claim 3, wherein the
2 width of the groove exceeds the width of the hook such that the
3 hard disk drive can move a predetermined distance along a Y axis.

1 5. The fixing assembly as claimed in claim 2, wherein the
2 mounting bracket further comprises a first protrusion and the
3 cover further comprises a second protrusion, and the second
4 protrusion holds the first protrusion to limit the motion of the
5 hard drive.

1 6. The fixing assembly as claimed in claim 5, wherein the
2 first protrusion is a nose and the second protrusion is an angled
3 lock, the angled lock holds the nose to limit the motion of the
4 hard drive along a Z axis, and a gap is formed between the nose

5 and the angled lock such that the hard drive can move a
6 predetermined distance along the Z axis.

1 7. The fixing assembly as claimed in claim 1, further
2 comprising an elastic member disposed between the mounting
3 bracket and the cover to absorb vibration.

1 8. The fixing assembly as claimed in claim 7, wherein the
2 mounting bracket including a face and two flanges extending from
3 each end of the face and the cover including a front plate, two
4 side plates and a bottom plate, the front plate connecting to
5 the bottom plate forming an L shape, and the side plates disposed
6 at opposing ends of the bottom plate to connect the front plate
7 and the bottom plate.

1 9. The fixing assembly as claimed in claim 8, wherein the
2 elastic member is disposed between the face and the front plate.

1 10. The fixing assembly as claimed in claim 8, wherein the
2 elastic member is disposed between each flange and side plate.

1 11. The fixing assembly as claimed in claim 8, wherein the
2 elastic member is disposed between the hard disk drive and the
3 bottom plate.

1 12. An electronic device, comprising:
2 a housing;
3 a main board disposed in the housing and having a first
4 connector;
5 a hard disk drive having a second connector connected to
6 the first connector; and

7 a fixing assembly for connecting and fixing the hard drive
8 to the electronic device, comprising:
9 a mounting bracket engaging the hard disk drive; and
10 a cover flexibly connected to the mounting bracket and
11 engaging the electronic device.

1 13. The device as claimed in claim 12, wherein the
2 mounting bracket comprises a first engaging portion
3 and the cover comprises a second engaging portion
4 flexibly connected to the first engaging portion.

1 14. The device as claimed in claim 13, wherein the first
2 engaging portion is a hook and the second engaging
3 portion is a groove, and the hook engages the groove
4 to prevent the hard drive from moving along an X axis.

1 15. The device as claimed in claim 14, wherein the width
2 of the groove exceeds the width of the hook such that
3 the hard drive can move a predetermined distance
4 along a Y axis.

1 16. The device as claimed in claim 13, wherein the
2 mounting bracket further comprises a first
3 protrusion and the cover further comprises a second
4 protrusion, and the second protrusion holds the first
5 protrusion to limit the motion of the hard drive.

1 17. The device as claimed in claim 16, wherein the first
2 protrusion is a nose and the second protrusion is an
3 angled lock, the angled lock holds the nose to limit
4 the motion of the hard drive along a Z axis, and a
5 gap is formed between the nose and the angled lock
6 such that the hard drive can move a predetermined
7 distance along the Z axis.

1 18. The device as claimed in claim 12, wherein the fixing
2 assembly further comprises an elastic member
3 disposed between the mounting bracket and the cover
4 to absorb vibration.

1 19. The device as claimed in claim 18, wherein the
2 mounting bracket includes a face and two flanges
3 extending from each end of the face and the cover
4 including a front plate, two side plates and a bottom
5 plate, the front plate connected to the bottom plate
6 forming an L shape, and the side plates disposed at
7 opposing ends of the bottom plate to connect the front
8 plate and the bottom plate.

1 20. The device as claimed in claim 19, wherein the elastic
2 member is disposed between the face and the front plate.

1 21. The device as claimed in claim 19, wherein the elastic
2 member is disposed between each flange and side plate.

1 22. The device as claimed in claim 19, wherein the elastic
2 member is disposed between the hard disk drive and the bottom
3 plate.